Amended Claims

Claims 1-24 (canceled).

1 ~~25.~~ **(currently amended)** A method for determining a level ~~or pattern~~ of a carcinogenesis biomarker in a cell in vitro comprising:

(a) incubating, under conditions permitting specific nucleic acid hybridization, a marker nucleic acid molecule, said marker nucleic acid molecule having a nucleic acid sequence ~~selected from the group consisting~~ of SEQ NO. ~~NOS: 280 and~~ 488 or The complement ~~complements thereof~~, with a nucleic acid molecule obtained from said cell, wherein nucleic acid hybridization between said marker nucleic acid molecule, and said complementary nucleic acid molecule obtained from said cell permits the detection of said carcinogenesis biomarker;

(b) permitting hybridization between said marker nucleic acid molecule and said complementary nucleic acid molecule obtained from said cell; and

(c) detecting the level ~~or pattern~~ of said complementary nucleic acid, wherein the detection of said complementary nucleic acid is predictive of the level ~~or pattern~~ of said carcinogenesis biomarker.

2 ~~26.~~ **(original)** The method of claim ~~25~~ 1, wherein said level is predictive of said carcinogenesis biomarker.

27. **(original)** The method of claim 25, wherein said pattern is predictive of said carcinogenesis biomarker.

3 ~~28.~~ **(original)** The method of claim ~~25~~ 1, wherein said level ~~or pattern~~ is detected by *in situ* hybridization.

Claims 29 and 30 (canceled).

4. ~~31.~~ **(previously presented)** A method for measuring the carcinogenicity of a composition comprising:

(a) culturing a cell line in vitro;

(b) exposing said cell line to said composition; and

(c) determining the presence or absence of mRNA which substantially hybridizes to at least one nucleic acid sequence selected from the group consisting of SEQ NOS: 280, 384, and 488 and The complements thereof.

5. ~~32.~~ **(previously presented)** A method for measuring the carcinogenicity of a composition comprising:

(a) exposing a hepatocyte in vitro to said composition; and

(b) detecting the presence or absence in said hepatocyte of mRNA which substantially hybridizes to at least one nucleic acid sequence selected from the group consisting of SEQ NOS: 280, 384, and 488 and The complements thereof.

6 ~~33.~~ (previously presented) **~~(original)~~** The method of claim ~~32~~ 5, wherein said hepatocyte is a rat hepatocyte.